

Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) EP 0 963 087 A1

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication:
08.12.1999 Bulletin 1999/49

(51) Int. Cl.⁶: H04L 29/06, H04L 12/56

(21) Application number: 99104279.7

(22) Date of filing: 03.03.1999

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

- Matsui, Susumu
Machida-shi (JP)
- Ouchi, Toshiya
Tokyo (JP)
- Shibata, Haruo
Yokohama-shi (JP)
- Hirayama, Koji
Chigasaki-shi (JP)
- Shirai, Keisuke
Yokohama-shi (JP)

(30) Priority: 04.06.1998 JP 15585798

(71) Applicant: Hitachi, Ltd.
Chiyoda-ku, Tokyo 101-8010 (JP)

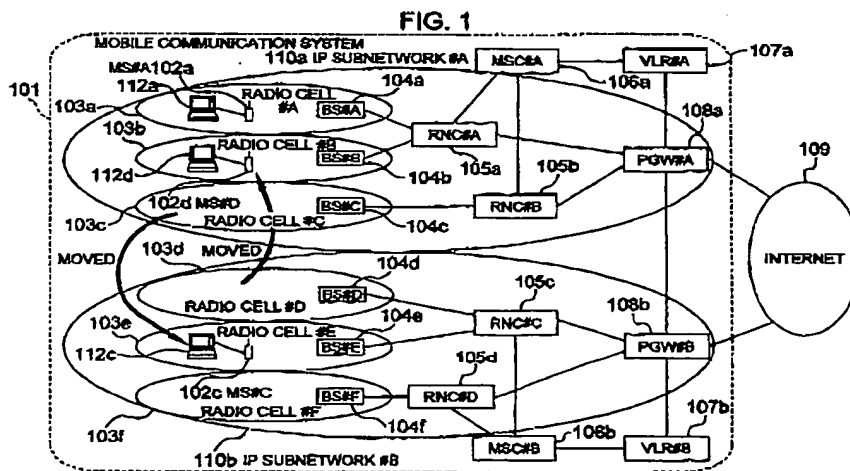
(72) Inventors:
• Mizutani, Mika
Tokyo (JP)

(74) Representative:
Strehl Schübel-Hopf & Partner
Maximilianstrasse 54
80538 München (DE)

(54) Mobile communication system for providing IP packet communications and method for routing IP packets

(57) A plurality of packet gate ways (PGWs) are connected between a mobile communication system (101) and an internet (109) so that the corresponding IP subnetworks (110) to those PGWs may be built. A visitor location register (VLR) operates to notify the PGW of location information of the mobile station (MS) and an IP address of a data terminal connected with the MS. If the notified IP address belongs to another IP subnetwork,

the PGW notifies the corresponding PGW to that IP subnetwork of a fact that the local PGW is a destination. The PGW operates to manage the location information of the MS connected with the data terminal based on the notified content and perform the packet routing based on the managed content.



Printed by Xerox (UK) Business Services
2.16.7/3.6

BEST AVAILABLE COPY

EP 0 963 087 A1